

Publication

EP 0879848 A4 19981230

Application

EP 97941194 A 19970919

Priority

- JP 9703308 W 19970919
- JP 31939996 A 19961129

Abstract (en)

[origin: US6147166A] The present invention provides a rubber composition and a pneumatic tire using the rubber composition. A rubber composition comprises silica in an amount of 10 to 85 parts by weight per 100 parts by weight of natural rubber and/or diene synthetic rubbers. A polysulfide silane coupling agent having a specific distribution of sulfur reacts with a trivalent phosphorus compound such that a content of high polysulfide in the polysulfide silane coupling agent is reduced. The rubber composition further comprises 1 to 20% by weight, based on an amount of the silica, of the polysulfide silane coupling agent having a specific distribution of sulfur such that a content of high polysulfide component is small. The pneumatic tire has an excellent low heat buildup property.

IPC 1-7

C08L 7/00

IPC 8 full level

C08K 5/548 (2006.01)

CPC (source: EP KR US)

B60C 1/00 (2013.01 - KR); **B60C 1/0016** (2013.01 - KR); **C08K 3/04** (2013.01 - KR); **C08K 5/49** (2013.01 - KR); **C08K 5/548** (2013.01 - EP KR US); **C08L 9/00** (2013.01 - KR); **C08L 21/00** (2013.01 - KR)

C-Set (source: EP US)

C08K 5/548 + **C08L 21/00**

Citation (search report)

- [X] US 3978103 A 19760831 - MEYER-SIMON EUGEN, et al
- [X] US 4514231 A 19850430 - KERNER DIETER [DE], et al
- [A] US 5534574 A 19960709 - SANDSTROM PAUL H [US], et al
- [T] EP 0845472 A2 19980603 - SHINETSU CHEMICAL CO [JP]
- See references of WO 9748264A2

Cited by

EP1010723A1; DE19916498A1

Designated contracting state (EPC)

DE ES FR GB IT NL

DOCDB simple family (publication)

US 6147166 A 20001114; CN 1209826 A 19990303; DE 69730012 D1 20040902; DE 69730012 T2 20041125; EP 0879848 A2 19981125; EP 0879848 A4 19981230; EP 0879848 B1 20040728; ES 2224269 T3 20050301; JP 3445620 B2 20030908; KR 100305604 B1 20011122; KR 19990077070 A 19991025; WO 9748264 A2 19971224; WO 9748264 A3 19980226

DOCDB simple family (application)

US 93439797 A 19970919; CN 97191939 A 19970919; DE 69730012 T 19970919; EP 97941194 A 19970919; ES 97941194 T 19970919; JP 50270098 A 19970919; JP 9703308 W 19970919; KR 19980705204 A 19980703